

Isaac Ng

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Computer Science major seeking opportunities for future challenges to improve professional and personal skills.

Education

Case Western Reserve University, Class of 2019

Cleveland, Ohio

B.S. Computer Science w/ Business Management Minor, GPA: 3.085

08/2015—Present

Coursework: Data Structures, Algorithms, Probabilistic Graphical Models, Programming Language Concepts

Niwot High School, Class of 2015

Longmont, Colorado

High School Diploma, GPA: 4.5

08/2011-05/2015

Salutatorian, National Merit Finalist, IB Diploma, AP Scholar w/ Honor, Principal's List 4 Years

Experience

Seagate

Longmont, Colorado

Firmware Dataflow Engineering Intern

05/2018-08/2018

- o Added functionality for multiple drives/worker to Python script that parsed csv data.
- o Converted excel writing library from XLWT to XLSXWriter to optimize code.
- o Attempted to write in multi actuator support for script that generated command list data.

Seagate

Longmont, Colorado

Firmware Dataflow Engineering Intern

05/2017-08/2017

- o Worked with the Firmware Engineering Group via Agile Methodologies.
- o Wrote STX script to print different drive data to csv file.
- o Wrote Python script to parse drive(s) data and display performance.
- o Refactored and debugged code using Coverity, Perforce, Code Collaborator, SBM, and JIRA.

Team Dignitas

Cleveland, Ohio

Online Content Writer

09/2017-Present

- o Communicated clearly with supervisor concerning article ideas, submission times, and finished projects.
- o Wrote various CSGO articles going in-depth into the game mechanics, theorycraft, and strategies.
- o Submitted and revised articles in a timely manner.

Coding Projects

- o Wrote script that scrapes videogame data and plots the findings in Python.
- o Wrote 2x2 Rubik's Cube solver that used A* and beam search in Java.
- o Wrote byrrice.github.io, a personal website written entirely from scratch in HTML/CSS/JavaScript.
- o Wrote ImageToSpeech, a Chrome extension that describes images using the Google Vision API in JavaScript.

Skills

Software: Microsoft Office, Sony Vegas Pro, Photoshop, IntelliJ, GitHub, Linux Shell, Unity, Git

Programming Language: Java, Python, Matlab, Scheme, Prolog, Haskell, C#, Markdown/Latex, HTML, CSS, JavaScript

Misc: Agile Methodology, American Red Cross Lifeguard Certification, Mandarin

Honors

Eagle Scout: Senior Patrol Leader, Eagle Scout Project: Sandstone Ranch Restoration

Instruments: Carnegie Hall Royal Conservatory Level 10 Oboe Certification, American String Teacher Association Level 10 Violin Certification

Coding: HackCWRU V Maker Award

Interests/Hobbies

- o Vice President of Case Western Club Tennis 08/2015 - Present
- o Member of Asian American Alliance 02/2016 - Present
- o Pytte Cup Chair, House Manager of Phi Gamma Delta(FIJI) 02/2016 - Present
- o Membership Development Chair of Case Engineering Council 07/2017 - Present
- o Vice President/Co-Founder of CWRU Without Borders 10/2017 - Present
- o Captain/In Game Leader of Esports Club Collegiate Star League CSGO Team 08/2017 - 12/2017